

JUL 09 2004

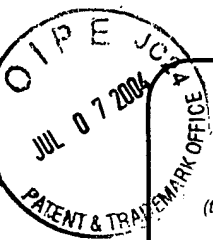
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PTO/SB/21 (02-04)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number 10/656,732

Filing Date September 4, 2003

First Named Inventor H. Montgomery Manning

Art Unit 2811

Examiner Name Unknown

Attorney Docket Number MI22-2608

Total Number of Pages in This Submission

## ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input checked="" type="checkbox"/> Power of Attorney, <del>Revocation</del> <del>Change of Correspondence Address</del> by Assignee	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	PTO Return Receipt Postcard
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> CD, Number of CD(s) _____	Copy of Assign. w/Brd of Dir Resolution
<input type="checkbox"/> Certified Copy of Priority Document(s)	Remarks	
<input type="checkbox"/> Response to Missing Parts/Incomplete Application	Customer No. 021567	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	NO FEE IS REQUIRED WITH THIS FILING. However, should a fee be determined as owing, please charge such fee to Deposit Account.No. 23-0925	

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	David G. Latwesen, Ph.D., Reg. No. 38,533 Wells St. John P.S.
Signature	
Date	5/7/04

## CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

EXPRESS

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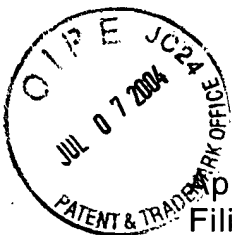
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Signature

Date July 7, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Serial No. .... 10/656,732  
Filing Date ..... September 4, 2003  
Inventor ..... H. Montgomery Manning  
Assignee ..... Micron Technology, Inc.  
Group Art Unit ..... 2811  
Examiner ..... Unknown  
Attorney's Docket No. .... MI22-2608  
Title: Support For Vertically-Oriented Capacitors During The Formation Of A  
Semiconductor Device

**POWER OF ATTORNEY BY ASSIGNEE AND CERTIFICATE BY ASSIGNEE**  
**UNDER 37 CFR § 3.73(b),**  
**AND CHANGE OF CORRESPONDENCE ADDRESS**

To: Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

MICRON TECHNOLOGY, INC., the Assignee of the entire right, title and interest in the above-identified patent application by an assignment recorded at Reel/Frame 014497/0045, hereby appoints the practitioners associated with:

**Customer Number 021567**

as its attorneys to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

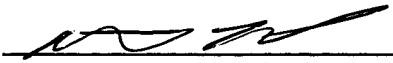
The Assignee certifies that the above-identified Assignment has been reviewed and to the best of Assignee's knowledge and belief, title is in the Assignee, and a copy of the Assignment is submitted herewith.

Please change the correspondence address associated with the present application to the address associated with Customer No. 021567.

MICRON TECHNOLOGY, INC.

Dated: 7-5-04

By:

  
Name: Michael L. Lynch, Esq.  
Title Chief Patent Counsel

*Attachments: Copy of Assignment; Copy of Board of Directors' Resolution*



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

APRIL 13, 2004

PTAS



\*102554828A\*

MICRON TECHNOLOGY, INC.  
KEVIN D. MARTIN  
8000 S. FEDERAL WAY  
PATENT DEPT., MAIL STOP 1-525  
BOISE, ID 83716

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 09/04/2003

REEL/FRAME: 014497/0045

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

MANNING, HOMER M.

DOC DATE: 09/03/2003

ASSIGNEE:

MICRON TECHNOLOGY, INC.  
8000 S. FEDERAL WAY  
MAIL STOP 01-525  
BOISE, IDAHO 83716

SERIAL NUMBER: 10656732

FILING DATE: 09/04/2003

PATENT NUMBER:

ISSUE DATE:

EL979952067

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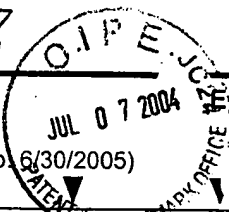
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ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

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(Rev. 10/02)

OMB No. 0651-0027 (exp. 6/30/2005)

Tab settings ⇄⇄⇄



09-22-2003



102554828

U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the original documents or copy thereof.

1. Name of conveying party(ies):

Homer M. Manning

2. Name and address of receiving party(ies)

Name: Micron Technology, Inc.

Internal Address: Mail Stop 01-525

Street Address: 8000 S. Federal Way

City: Boise State: ID Zip: 83716

Additional name(s) & address(es) attached? ☐ Yes ☒ No

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger

☐ Security Agreement ☐ Change of Name

☐ Other \_\_\_\_\_

Execution Date: September 3, 2003

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: 09/04/2003

A. Patent Application No.(s) 2003-0576.00/US

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence

concerning document should be mailed:

Name: Kevin D. Martin

Internal Address: Patent Department, Mail Stop 1-525

Micron Technology, Inc.

Street Address: 8000 S. Federal Way

City: Boise State: ID Zip: 83716

6. Total number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41) ..... \$ 40

☐ Enclosed

☒ Authorized to be charged to deposit account

8. Deposit Account Number:

13-3092

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9. Signature.

09/18/2003 6TON11 00000009 133092 10656732

01 FC:8021

40.00 DA

Kevin D. Martin

Name of Person Signing

Kevin D. Martin  
Signature

September 4, 2003

Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & trademarks, Box Assignments  
Washington, D.C. 20231

15757 U.S. PTO  
10/656732



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:  
Homer M. Manning

Serial No.: Not Assigned

Filed: Concurrently Herewith

For: **SUPPORT FOR VERTICALLY-ORIENTED  
CAPACITORS DURING THE  
FORMATION OF A SEMICONDUCTOR  
DEVICE**

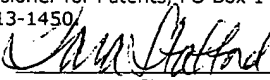
§  
§ Group Art Unit: Not Assigned  
§  
§ Examiner: Not Assigned  
§  
§ Atty. Docket: 2003-0576.00/US  
§  
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**Certificate of Express Mailing (37 CFR §1.10)**

"Express Mail" mail number: ET658403340US

Date of Deposit: September 4, 2003

I hereby certify that this paper is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR §1.10 on the date indicated above and is addressed to the Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

  
Signature

**ASSIGNMENT**

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

SELL, ASSIGN AND TRANSFER to MICRON TECHNOLOGY, INC., (the "Assignee"), a corporation of Delaware having a place of business at 8000 S. Federal Way, Boise, ID 83706, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith and is entitled **SUPPORT FOR VERTICALLY-ORIENTED CAPACITORS DURING THE FORMATION OF A SEMICONDUCTOR DEVICE DEVICE**; such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT that, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for securing, maintaining and enforcing proper patent protection for such improvements and for vesting title to such improvements in the Assignee;

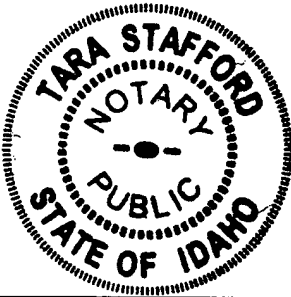
TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

(Signature) *Homer M. Manning* Date: 9/3/03  
Homer M. Manning

STATE OF IDAHO )  
 ) ss.  
COUNTY OF ADA )

BEFORE ME, this 3 day of SEPTEMBER, 2003 personally appeared the above-named individual, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

SEAL



*Tara Stafford*  
Notary or Consular Officer  
My Commission Expires: 5/10/07

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**MICRON TECHNOLOGY, INC.**  
**BOARD OF DIRECTORS RESOLUTIONS**

WHEREAS, certain key employees require the authority to execute certain documents on behalf of the Company in order to enable them to effectively and efficiently carry out their responsibilities and duties to the Company.

NOW THEREFORE BE IT RESOLVED, that the Board hereby approves and authorizes Mr. Michael L. Lynch, Assistant General Counsel for Intellectual Property, to execute on behalf of the Company, documents pertaining to the Company's patent prosecution matters, including but not limited to documents relating to representation before a patent examining authority, patent terms and other patent prosecution procedures, both in the United States and other countries, upon such terms and conditions as the General Counsel of the Company shall deem necessary or appropriate.

EL979952067

**MICRON TECHNOLOGY, INC.  
CERTIFIED COPY OF RESOLUTIONS**

I, Jan R. Reimer, the Assistant Secretary of Micron Technology, Inc. do hereby certify, that the resolutions attached hereto represent a complete, true and correct copy of the resolutions duly adopted by the Board of Directors of Micron Technology, Inc., a corporation duly organized and existing under the laws of the State of Delaware, at a meeting duly held on March 25, 1996, a quorum being present, and have been entered into the minutes of said meeting; that I am the keeper of the corporate seal and of the minutes and records of this Corporation; and that the said resolutions have not been rescinded or modified.

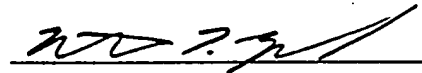
The resolutions attached hereto are in conformity with the Articles of Incorporation and Bylaws of the Corporation and are now in full force and effect.

I further certify that the person whose name and signature is set out below is the person authorized to act for said corporation in transactions with and pursuant to the foregoing resolutions, and that such person is now duly qualified and acting in his respective capacity:

NAME AND TITLE

SIGNATURE

Michael L. Lynch, Assistant General  
Counsel for Intellectual Property



IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed the seal of the said corporation, this 16th day of May, 1996.

  
Jan R. Reimer, Assistant Secretary

(SEAL)